

**ABSTRACT OF THE DISCLOSURE**

Disclosed herein is a high energy lithium battery system. This system comprises carbon nanotubes and/or other nanotubular materials for both the anode and cathode. The battery is comprised of two active electrodes each composed of carbon nanotubes, a battery separator and a lithium salt containing electrolyte. The separator and electrolyte can be any one of many well known to those skilled in the art. The liquid/solid polymer electrolytes imparts added safety to this high energy system. The carbon nanotube electrodes can be single wall, multiwall, nanohorns, nanobells, peapods, buckyballs and the like, or other colloquial names for nanostructured carbon materials and combination thereof.